



Belkin WeMo Switch Teardown

Teardown of the Belkin WeMo Switch performed on March 4th, 2017.

Written By: Geoff Wacker



INTRODUCTION

Belkin WeMo Switch teardown.



TOOLS:

- [Phillips #1 Screwdriver](#) (1)
 - [Tweezers](#) (1)
 - [2 mm Triangle Screwdriver](#) (1)
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Step 1 — Belkin WeMo Switch Teardown



- Model: F7C027
- FCC ID: [K7SF7C027](#)
- Input: 120 V, 15 A, 60 Hz
- Output: 120V, 15 A, 60 Hz

Step 2



- Remove the four 11.9 mm triangle screws securing the two halves of the case together.
- ⓘ The upper two screws are hidden underneath the label, so you'll need to cut away the sticker directly above the screws.

Step 3



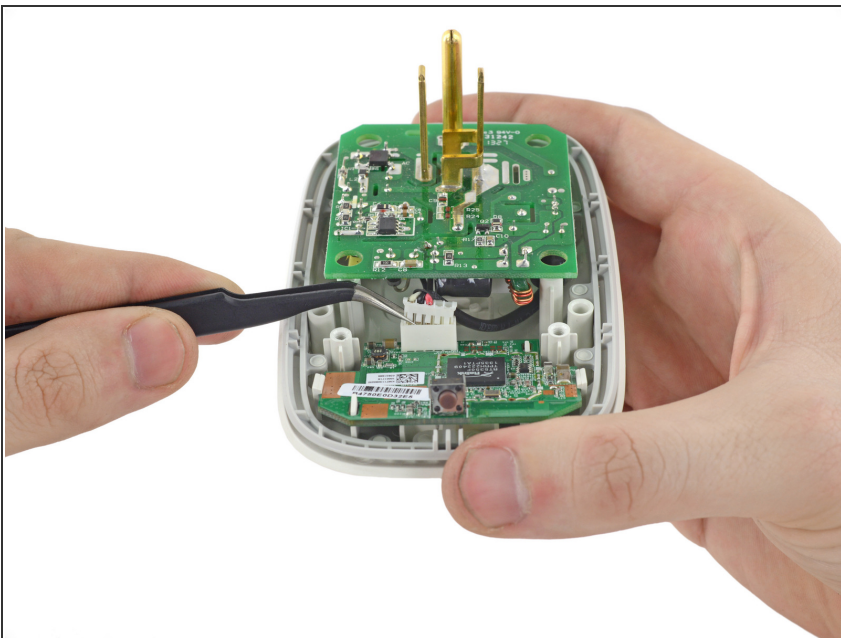
- Carefully pry the back case off.

Step 4



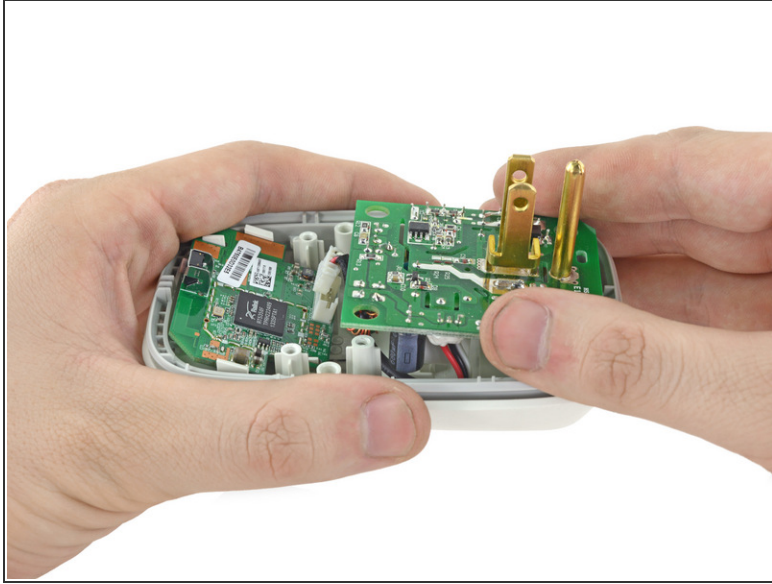
- Remove the two 9.9 mm Phillips #1 screws securing the power board to the device.

Step 5



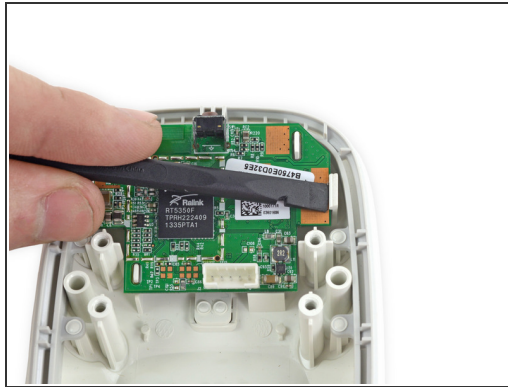
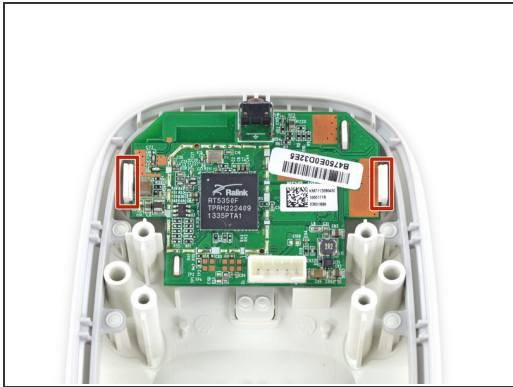
- Use a pair of tweezers to disconnect the power plug from the motherboard.

Step 6



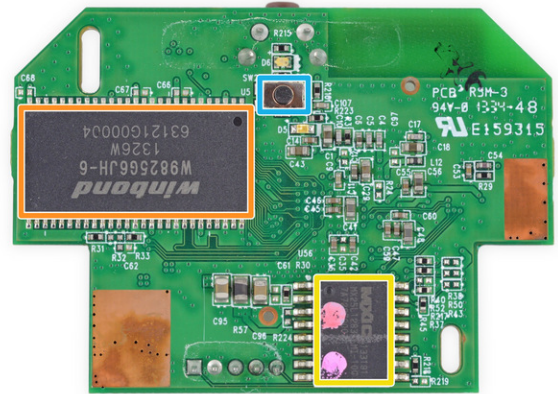
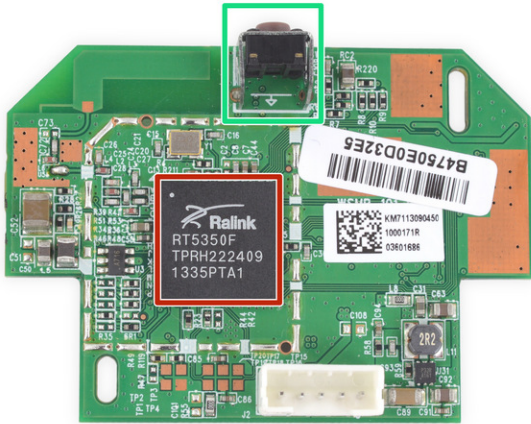
- Remove the power board from the device.

Step 7



- Use the flat end of spudger to gently pry the retaining flaps away from the motherboard.
- The motherboard should now come free.

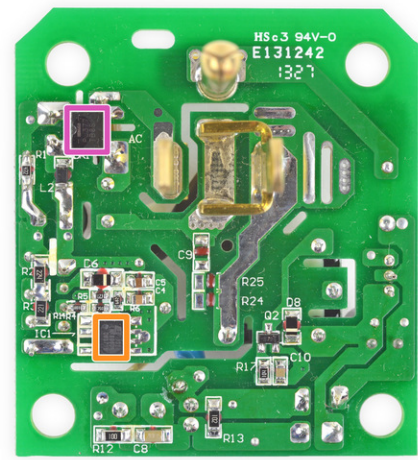
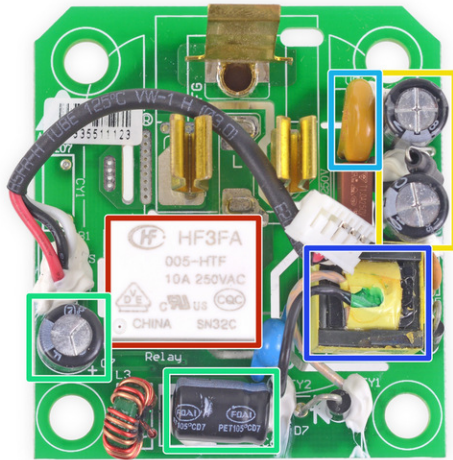
Step 8



- Components on the motherboard:

- Ralink [RT5350](#) Wi-Fi SoC
- Winbond [W9825G6JH-6](#) 256 Mb 166 MHz SDRAM
- Macronix [MX25L12835EMI-10G](#) 128 Mb NOR Flash Memory
- Momentary push button switch for factory reset
- Momentary push button switch for power switch

Step 9



- Components on the power board:

- Hongfa [HF3FA](#) 10 A Relay
- Power Integrations [LNK606DG](#) 5.5 W AC/DC Converter
- TAICON [6.8 \$\mu\$ F](#) Capacitor (x2)
- FOAI [680 \$\mu\$ F](#) Capacitor (x2)
- JOYIN [JVR10N471K](#) 385 V 70 J Varistor
- Chipsen [EPC13](#) 50 W Transformer
- PANJIT International [TB8S](#) 800 V 30 A Bridge Rectifier Diode

Step 10



- Final layout.

This document was last generated on 2017-06-19 08:04:23 PM.